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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/739,325	12/19/2000	Luc Attimont	Q62358	2589
26291	7590 12/28/2004		EXAMINER	
•	PATTERSON & SHER	CHO, HONG SOL		
595 SHREWSBURY AVE, STE 100 FIRST FLOOR			ART UNIT	PAPER NUMBER
SHREWSE	BURY, NJ 07702	2662		
			DATE MAILED: 12/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/739,325	ATTIMONT ET AL.		
		Examiner	Art Unit		
		hong s cho	2662		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period is reto reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely, the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
2a)⊠ —	Responsive to communication(s) filed on <u>01 States</u> This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under Expensive to communication(s) filed on <u>01 States</u> This action is FINAL . 2b) This states are the states ar	action is non-final. nce except for formal matters, pre			
Dispositi	on of Claims				
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,6 and 7 is/are rejected. 7) Claim(s) 2,4 and 5 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachmen	t(s)				
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>2</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

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DETAILED ACTION

Response to Amendment

1. This office action is in response to the amendment filed on 9/1/04. Claims 1-7 are pending in the instant application.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Chan (U.S 5897613).

Re claim 1, Chan discloses a method providing for sound signal packets to be transmitted from the digitizing ("A-D converter", figure 1, element 111) and encoding ("coder", figure 1, element 113) means without taking account of the presence or absence of speech signals in the processed sound signals during an initial stage of call optimization ("transmitting speech signals interspersed with silence signals during a packet time interval", abstract; column 1, lines 45-50). For the purpose of the examination, the Examiner considers "an initial stage of call optimization" as a packet time interval where speech and silence packets are transmitted.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chapman in view of Chan.

Re claim 3, Chapman discloses Voice Activity Detection (Determining) means that is used to detect voice (speech) signals in sound signals (column 4, lines 56-66). Chapman teaches that Voice Activity Detection enables digitized sound signals to be transmitted only if they contain speech signals ("starts audio (speech) packet transmission based on the existence of a conversation (speech signals)", column 4, lines 56-66). Chapman, however, lacks the specific operation of a subscriber terminal. Chan shows telecommunications hardware, in particular subscriber terminal, which is connected to packet switched network ("transmission channel", figure 1, element 102; column 2, lines 65-66) that is designed to send digitized sound signals ("an analog-to-digital converter that converts analog sound signals into digital signals", figure 1, element 111). In view of this, having the teachings of Chapman and then given the concept of Chan, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the process of voice activation detection means to be embedded in

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subscriber's terminal. The motivation to combine is to get the benefit taught by

Chapman on the voice activity detection means to detect and transmit the voice (speech)

signals in sound signals.

Re claim 7, Chapman discloses a cable modem at subscriber location (a subscriber terminal, column 3, lines 55-56).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chan.

Re claim 6, the usage of voice activity determining means in a voice processing system in a packet switched networks, for example, Voice over Internet Protocol (VoIP) is well known in the art.

Allowable Subject Matter

- 6. Claims 2, 4, and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claim 2 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a method of determining the initial telephone call optimization stage of a duration that is selected to enable a receiving terminal to receive a sufficient number of digitized sound signal packets relating to the call to enable the size of the receive buffer for digitized sound signals to be determined on the basis of a statistical evaluation of the delays observed on the received packets.

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Claims 4 and 5 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a timing means acting on the voice activity determining means so that said voice activity determining means act only after the end of an initial optimization stage of determined duration.

Response to Arguments

8. On page 7 lines 16-19 the Applicant argues that Chan does not disclose transmitting sound signal packets from the digitizing and encoding means without taking account of the presence or absence of speech signals in the processed sound signals during an initial stage of call optimization. The Examiner respectfully disagrees. Chan discloses transmitting speech signals interspersed with silence signals during a packet time interval (abstract; column 1, lines 45-50). Chan's "one (or few) ATM cells transmitted at the beginning of every silence interval is used to improve the overall voice quality of the transmission. Therefore, the Examiner concludes that the rejection of claim 1 stands rejected.

Applicant's arguments with respect to claims 2, 4, and 5 overcome the prior art of record, therefore, the rejection of claims 2, 4, and 5 is hereby withdrawn.

On page 9 lines 4-17 the Applicant argues that Chan does not disclose preventing a subscriber terminal from acting until the initial optimization stage has terminated. In fact, as explained above, Chan discloses transmitting speech signals interspersed with silence signals during a packet time interval. Chapman discloses enabling Voice Activity

signals are transmitted.

Detection to transmit digitized sound signals only if they contain speech signals.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the process of voice activation detection means to be embedded in subscriber's terminal so that only digitized sound packets with speech

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087. The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hong Cho Patent Examiner 12-13-2004

RICKY NGO PRIMARY EXAMINER